BUILDING TRUST

PRODUCT DATA SHEET

Sika® Injection-307

ELASTIC POLYACRYLIC INJECTION RESIN USED FOR PERMANENT WATERTIGHT SEALING

DESCRIPTION

Sika® Injection-307 is a very low viscous, elastic polyacrylic injection resin with a versatile and adjustable reaction time.

USES

Sika® Injection-307 may only be used by experienced professionals.

- Sika® Injection-307 is used for crack and joint injection
- Sika® Injection-307 is used for the injection of SikaFuko® injection hoses to seal construction joints
- Sika® Injection-307 is used to seal water-bearing cracks and voids
- Sika® Injection-307 is used for making new sealing walls (curtains) in damp or water saturated ground conditions, situated in close proximity to the building component or within the building structure
- Sika® Injection-307 is used as a post-construction, external injection sealing system for construction and limited movement expansion or drainage pipe joints, that are, or will be, covered with damp or water saturated soil
- Sika® Injection-307 can also be used for the repair by injection of damaged waterproofing membranes (single and double layer system)

CHARACTERISTICS / ADVANTAGES

- Providing passivizing environment for embedded steel reinforcement
- Adjustable curing time between 5 and 50 minutes
- Permanently elastic, can absorb limited movements
- Capable of reversibly absorbing (swelling) and releasing (shrinking) moisture
- Solvent free acrylic resin
- Very low viscosity comparable to water
- Cured Sika® Injection-307 is insoluble in water and hydrocarbons and resistant to alkalis.

APPROVALS / STANDARDS

- Concrete injection for swelling fitted filling of cracks, (S) according to EN 1504-5:2004, Declaration of Performance 70573661, certified by notified factory production control certification body 0921, and provided with the CE marking
- Watertightness test report 1201/011/16a of 7 bar according to EN14068 - tested by MPA Braunschweig
- Corrosion test report M2208 in Steel - according to EN480-14 - tested by RWTH Aachen
- Function test report use of Sika® Injection-307 in combination with SikaFuko VT-1 PB-2016-204 - tested by Wissbau Essen
- Compatibility tests on PVC/TPO Membranes 1200/554/17 - according to EN12637-3 - tested by MPA Braunschweig

PRODUCT INFORMATION

Chemical base

3-part polyacrylic resin

Packaging

Sika® Injection-307 SET "Ready to use" contains:

Component A (Resin)	2 × 9,6 kg
Accelerator Component A1	1 × 1,05 kg
Component B	4 × 0,4 kg

Components available separately, Volume packaging:

Component A (Resin)	1 × 19,2 kg
Accelerator Component A1	1 × 5,25 kg
Component B	36 × 0,4 kg

Colour

Component A (Resin)	blue – transparent
Accelerator Component A1	yellow – transparent
Component B	white

Shelf life

12 months shelf life from date of production if stored properly in undamaged, unopened, original sealed packaging.

Storage conditions

Dry storage at temperatures from +10 °C up to +30 °C. Protect from direct sunlight and humidity.

Density

Component A (Resin)	~1,073 g/cm³	(EN ISO 2811-2) (at 20 °C)
Accelerator Component A1	~1,052 g/cm³	
Component B	~2,100 g/cm³	

Viscosity

3,8 mPa·s (mixture, at 20 °C) (EN ISO 3219)

APPLICATION INFORMATION

Mixing ratio

ml Accelerator	Ambient Temperature				
Reaction time	**5 °C (41 °F)**	**10 °C (50 °F)**	**20 °C (68 °F)**	**30 °C (86 °F)**	**40 °C (104 °F)**
5 min	-	1000*	750*	725*	700*
10 min	1000*	875*	500	490	480
20 min	620*	570*	375	340	250
30 min	545*	500	310	250	215
40 min	510*	450	270	225	200
50 min	475	440	260	210	170

Quantity of Accelerator per 9.6 kg component A, to yield 20 litres mixed resin. The total Accelerator solution must always be 1000 ml – see example below.
* reaction at cold temperatures – more accelerator than included in the set is required.

Note for processing in one component pumps
Workability time (pot life) = Reaction time (see metering chart) – 10 minutes

Example
Ambient temperature: 20 °C (68 °F)
Required reaction time: 30 min.
Accelerator = 310 ml
Water = 690 ml
Total volume = 1000 ml

Note:
The given data are laboratory parameters and may deviate depending on the object and conditions on site. Reaction time measured in 100ml specimen.

Yield

~ 40 litres per Sika® Injection-307 SET

Ambient Air Temperature	+5 °C min. / +40 °C max.
Substrate Temperature	+5 °C min. / +40 °C max.
Gel time	5–50 minutes

APPLICATION INSTRUCTIONS

MIXING

1. Prepare Hardener Solution
Pour 10 litres of water in a clean container. Dissolve the content of 2 bags (total 800 g) of Component B in the water. Stir the hardener solution thoroughly until Component B is completely dissolved.
2. Prepare Accelerator Solution
Determine the required quantity of accelerator from the chart provided under mixing ratio, based on ambient processing temperature and required reaction time. Dilute the selected quantity of accelerator with water, to a total quantity of 1 litre accelerator solution.
3. Mix Accelerator Solution with Resin Component A
Pour the 1 litre of accelerator solution into one 9.6 kg canister of Component A and shake/mix thoroughly.
4. Mix Resin with Hardener
Depending on the type of injection pump used activate the injection resin using one of the methods below:

- One component pump: Pour partial amount of the pre-mixed components in a ratio of 1:1 by volume into a clean mixing container. Mix thoroughly using an electric mixer and fill into the storage container of the pump.
- Two component pump: Fill partial amount of the pre-mixed components into the storage container of the pump. Set the pump to work at a ratio of 1:1 by volume.

APPLICATION METHOD / TOOLS

Sika® Injection-307 can be used with normal one or two component injection pumps.

CLEANING OF TOOLS

Clean all tools and application equipment according to the Product Data Sheet for the Sika® Injection Cleaning System.

IMPORTANT CONSIDERATION

- Sika® Injection-307 must be used in below ground structures.
- Contact Sika technical service for specific information on resistance to hydrocarbons or chemicals.

BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

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